

### AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended): A gas turbine plant ~~comprises~~ comprising:

a high-temperature gas-cooled reactor which warms a coolant by thermal energy being obtained by nuclear fission of clad fission products in coated-particle fuels;

~~“n”-shaft~~ a number “n” of first gas turbines in series that are rotated by the coolant being warmed by the high-temperature gas-cooled reactor and share same shafts with compressors compressing the coolant;

a second gas turbine that is rotated by the coolant being discharged from the last of the “n” first gas turbine turbines serving as a last stage after rotating each of the ~~“n”-shaft~~ “n” first gas turbines and shares a same shaft with a generator performing electrical power generation operation; and

a number “n-1” pieces of bypass flow passages with bypass valves that ~~have~~ bypass each of the ~~“n-1”-shaft~~ corresponding “n-1” first gas turbines bypassed to a position downstream of the corresponding first gas turbine ~~the coolant, respectively,~~ excluding the first gas turbine in a first stage being ~~elose~~ closest to the high-temperature gas-cooled reactor, among the ~~“n”-shaft~~ “n” first gas turbines;

wherein, during start-up, by controlling a lift of the ~~“n-1” pieces of~~ bypass valves, each of the ~~“n”-shaft~~ “n” first gas turbines has rotating speed thereof increased up to a rated rotating speed shaft by shaft sequentially, starting from the first gas turbine in a first stage.

2. (Currently Amended): A gas turbine plant as described in Claim 1:

wherein, ~~the bypass valve has~~ at least one of the "n-1" bypass flow passages with bypass valves bypasses the corresponding first gas turbine to a position downstream of the second gas turbine bypassed.

3. (Currently Amended): A gas turbine plant ~~comprises~~ comprising:

a high-temperature gas-cooled reactor which warms a coolant by thermal energy being obtained by nuclear fission of clad fission products in coated-particle fuels;

a high pressure gas turbine which is rotated by the coolant being warmed by the high-temperature gas-cooled reactor and shares a same shaft with a high pressure compressor compressing the coolant;

a low pressure gas turbine which is rotated by the coolant being discharged from the high pressure gas turbine and shares a same shaft with a low pressure compressor compressing the coolant;

a gas turbine for electrical power generation which is rotated by the coolant being discharged from the low pressure gas turbine and shares a same shaft with a generator performing an electrical power generation; and

a bypass flow passage with a bypass valve ~~which has that bypasses~~ the low pressure gas turbine to a position downstream of the low pressure gas turbine ~~bypassed to the coolant;~~

wherein, during start-up, first, a rotating speed of the high pressure compressor is increased up to a rated rotating speed by adjusting a lift of the bypass valve after charging the

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coolant with the bypass valve fully closed, and then next, with the bypass valve fully closed, a rotating speed of the low pressure compressor is increased up to a rated rotating speed.

4. (Currently Amended): A gas turbine plant as described in Claim 3:

wherein, ~~the bypass valve has~~ the bypass flow passage with the bypass valve bypasses the low pressure gas turbine to a position downstream of the gas turbine for electrical power generation ~~bypassed~~.